

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 301 (CRAIN HIGHWAY SOUTH) AND CEDARVILLE ROAD/MCKENDREE ROAD IN BRANDYWINE, PRINCE GEORGE'S COUNTY, MARYLAND. THE MODIFICATION INCLUDES UPGRADING TO DETECTION ALONG US 301 TO NON-INVASIVE LOOP DETECTION.

US 301 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. THE CONTROLLER CURRENTLY OPERATES IN A SIX (6) PHASE FULL TRAFFIC ACTUATED MODE, WITH EXCLUSIVE LEFT TURN PHASE ON NORTHBOUND AND SOUTHBOUND US 301. THE CONTROLLER OPERATION WILL REMAIN UNCHANGED.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION (S.H.A.)

ITEM NUMBER	QUANTITY	UNITS	DESCRIPTION
9570	16	SF	SHEET ALUMINUM GROUND MOUNTED SIGN (R5-1, 48" X 48")

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NUMBER	QUANTITY	UNITS	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
5005	42	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
8023	6	EA	NON-INVASIVE DETECTOR (ANY LENGTH) LEAD-IN CABLE UP TO 1000'
8024	1	EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT (PER ASSIGNMENT)
8038	150	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8040	20	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8041	36	LF	WOOD SIGN SUPPORTS UP TO 4'X6'
8048	4	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

C. EQUIPMENT TO BE REMOVED AND/OR RETUENED TO THE ADMINISTRATION (S.H.A.)

ALL MATERIAL & EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT LISTS

THE CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MS. FELECIA MURPHY
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7409

MR. VICTOR GRAFTON
DISTRICT UTILITY ENGINEER
301-513-7350

MR. VERNON STINNETT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

THE CONTACT PERSONS FOR THE OFFICE OF TRAFFIC & SAFETY ARE AS FOLLOWS:

MR. RICHARD DAFF
CHIEF - TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. EDWARD RODENHIZER
MANAGER - SIGNAL OPERATIONS
410-787-7652

MR. MICHAEL STOCKER
DOTS SIGNAL WAREHOUSE
410-787-7696

NOTE:

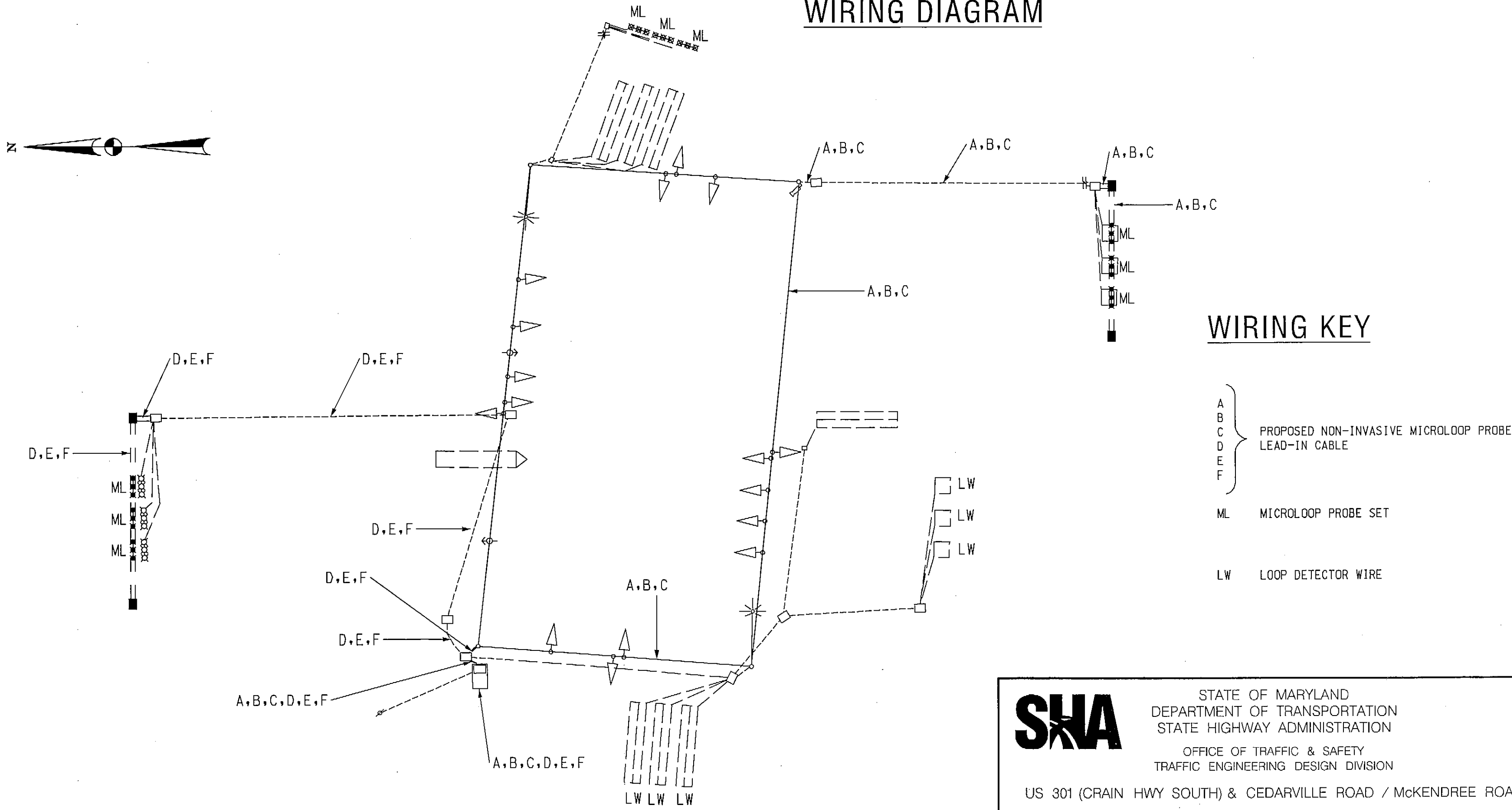
THE CONTRACTOR SHALL CONTACT THE DOTS SIGNAL WAREHOUSE AT LEAST 72 HOURS IN ADVANCE TO ARRANGE FOR PICKUP OF SIGNAL EQUIPMENT FURNISHED BY THE S.H.A. THE CONTACT PERSON SHALL BE MR. MICHAEL STOCKER AND HE CAN BE REACHED AT 410-787-7696.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase 1 & 5	←G→	←G→	R	R	R	←G→	←G→	R	R	R	R	R	R	R	R	R
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6																
Phase 1 & 6	←G→	←G→	G	G	G	←R→	←R→	R	R	R	R	R	R	R	R	R
1 Change	←Y→	←Y→	G	G	G	←R→	←R→	R	R	R	R	R	R	R	R	R
Phase 2 & 5	←R→	←R→	R	R	R	←G→	←G→	G	G	G	R	R	R	R	R	R
5 Change	←R→	←R→	R	R	R	←Y→	←Y→	G	G	G	R	R	R	R	R	R
Phase 2 & 6	←R→	←R→	G	G	G	←R→	←R→	G	G	G	R	R	R	R	R	R
2 & 6 Change	←R→	←R→	Y	Y	Y	←R→	←R→	Y	Y	Y	R	R	R	R	R	R
Phase 4 & 8	←R→	←R→	R	R	R	←R→	←R→	R	R	R	G	G	G	G	G	G
4 & 8 Change	←R→	←R→	R	R	R	←R→	←R→	R	R	R	Y	Y	Y	Y	Y	Y
Flashing Operation	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

Pre-emption 1	←R→	←R→	G	G	G	←R→	←R→	R	R	R	R	R	R	R	R	R
1 Change	←R→	←R→	Y	Y	Y	←R→	←R→	R	R	R	R	R	R	R	R	R
Pre-emption 2	←R→	←R→	R	R	R	←R→	←R→	G	G	G	R	R	R	R	R	R
2 Change	←R→	←R→	R	R	R	←R→	←R→	Y	Y	Y	R	R	R	R	R	R

WIRING DIAGRAM



SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 301 (CRAIN HWY SOUTH) & CEDARVILLE ROAD / MCKENDREE ROAD
BRANDYWINE, MARYLAND

GENERAL INFORMATION PLAN SHEET

SCALE NOT TO SCALE DATE FEB. 14, 2012 CONTRACT NO. XX4395185

DESIGNED BY MATAMBA KABENGELE COUNTY PRINCE GEORGE'S
DRAWN BY MATAMBA KABENGELE LOGMILE 16030100.41
CHECKED BY DERRICK DICKERSON TMS NO. K471
FAP NO. TOD NO.

TS NO. 2543 | DRAWING **TSP-02** OF 2 | SHEET NO. 2 OF 2

TOD NO: XX439-13
SHA NO: PG995B56
US 301 @ McKendree Rd/Cedarville Rd